

PATENT ABSTRACTS OF JAPAN

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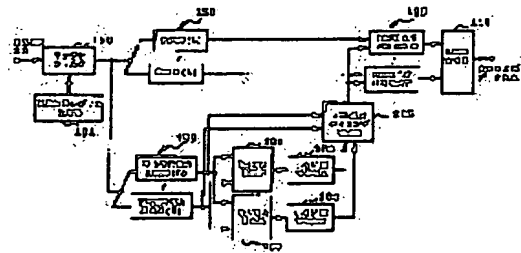
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(54) RAKE RECEIVER FOR DIRECT DIFFUSION CDMA TRANSMISSION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a RAKE receiver which makes RAKE reception by selecting many signals having sufficient receiving power as much as possible by rejecting signals only containing noise, etc.

SOLUTION: Diffusion-modulated signals in a base band are inputted to a matched filter 150 and reversely diffused by using the output of a diffused code replica generating section 151. The reversely diffused signals at L different timing are demodulated by means of a demodulating section 152. An average receiving power measuring section 153 measures the average receiving power at the L different timing. A minimum power detecting section 201 and a maximum power detecting section 203 detect the minimum signal power and maximum signal power at the L different timing. Two thresholds can be found by respectively multiplying the minimum and maximum signal power by constants GA and GB. A path selecting timing detecting section 205 detects the timing of a multipath having large signal power from the timing at which the average signal power is larger than the thresholds A and B.



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